## WHAT IS CLAIMED IS:

1	1. A method for nanopatterning of a substrate, comprising:		
2	a) supplying a multilayer article comprising at least one		
3	deformable substrate, at least one brittle layer, and at least one coating layer		
4	adjacent said brittle layer, said coating layer having different physicochemical		
5	properties than said brittle layer;		
6	b) exerting a strain on said multilayer article such that cracks		
7	develop in said brittle layer exposing surfaces in said cracks having no coating layer		
8	thereon.		
1	2. The method of claim 1, wherein said step of exerting a strain		
2	comprises unidirectionally stretching said multilayer article.		
1	3. The method of claim 1, wherein said step of exerting a strain		
2	comprises bending said multilayer article.		
1	4. The method of claim 1, wherein said step of exerting a strain		
2	comprises stretching said multilayer article bending said multilayer artical.		
1	5. The method of claim 1, wherein said deformable substrate		
2	comprises a polyorganosiloxane elastomer and said brittle layer comprises a		
3	silaceous layer.		
1	6. The method of claim 5, wherein said coating layer comprises		
2	a hydrophobic coating.		
1	7. The method of claim 5, wherein said coating layer comprises		
2	a first, hydrophobic coating, and a second coating on said first coating, said second		
3	coating comprising a substance which prevents attachment of biological organisms.		
1	8. The method of claim 7, further comprising coating said		
2	exposed surfaces with a bigactive coating		

1	9.	The method of claim 5, wherein said silaceous layer is formed	
2	by oxidizing a surface	e of said polyorganosiloxane deformable substrate.	
1	10.	The method of claim 1, wherein said step of exerting a strain	
2	comprises stretching	said multilayer article in at least two directions, either	
3	simultaneously or sec	quentially.	
1	11.	A nanopatterned device comprising:	
2	a)	a deformable substrate;	
3	b)	a brittle layer on at least one side of said deformable substrate,	
4	and having a first set of physicochemical properties;		
5	c)	a coating layer on a side of said brittle layer remote from said	
6	deformable substrate,	, said coating layer having a second set of physicochemical	
7	properties different from said first set of physicochemical properties; and		
8	d)	cracks through said coating layer and into said brittle layer,	
9	surfaces of said cracks exhibiting physicochemical properties different from said		
0	second set of physico	chemical properties.	
1	12.	The nanopatterned device of claim 11, wherein said cracks	
2	extend partly through	said brittle layer.	
1	13.	The nanopatterned device of claim 11, wherein said cracks	
2	extend through said b	rittle layer and expose surface of said deformable substrate.	
1	14.	The nanopatterned device of claim 11, wherein said	
2	deformable substrate	comprises a thermoplastic and/or an elastomer.	
1	15.	The nanopatterned device of claim 11, wherein said	
2	deformable substrate comprises an organopolysiloxane elastomer, and said brittle		
3	layer comprises a silaceous coating formed from a surface portion of said elastome		
4	or deposited on said e	elastomer.	

1	16.	The nanopatterned device of claim 15, wherein said brittle	
2	layer comprises oxidized organopolysiloxane.		
1	17.	The nanopatterned device of claim 11, wherein said coating	
2	layer comprises a hy	drophobic layer.	
1	18.	The nanopatterned device of claim 15, wherein said coating	
2	layer comprises a hydrophobic layer, and wherein said hydrophobic layer is formed		
3	by hydrophobicizing said silaceous coating with a silane.		
1	19.	The nanopatterned device of claim 17, wherein said coating	
2	layer comprises a hydrophobic coating layer and a bioactive layer on said		
3	hydrophobic layer.		
1	20.	The nanopatterned device of claim 19, wherein said bioactive	
2	layer comprises a layer which inhibits attachment of biological organisms.		
1	21.	The nanopatterned device of claim 20, wherein said cracks are	
2	coated with a bioa	active coating which encourages attachment of biological	
3	organisms.		
1	22.	The nanopatterned device of claim 11, comprising a plurality	
2	of parallel cracks.		
1	23.	The nanopatterned device of claim 11, comprising a plurality	
2	of parallel cracks an	d a plurality of cracks at an angle to said plurality of parallel	
3	cracks.		
1	24.	A method of growing cellular organisms comprising plating	
2	of at least one cellula	ar organism on cracks in the device of claim 11, and culturing	
3	said cellular organis		